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10/019,049	03/28/2002	Jorg Rosenberg	0480/01221	5165
75	90 04/22/2003			
Keil & Weinkauf			EXAMINER	
1101 Connecticut Avenue NW Washington, DC 20036			FUBARA, BLESSING M	
			ART UNIT	PAPER NUMBER
			1615	8
		DATE MAILED: 04/22/2003		
		Restart 2/2/04		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. 10/019,049 Examiner Blessing M. Fubara 1015 Art Unit Blessing M. Fubara 1015 As HORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. As HORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. As HORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Is the period for reply septided above is less than thirty (80) days, and any objection or provided and the period for reply septided above is less than thirty (80) days, and any objection to incommendation. If No period for reply septided above is less than thirty (80) days, and any objection to incommend the period of the communication. If No period for reply septided above is less than thirty (80) days, and any objection to incommendation. If No period for reply septided above is less than thirty (80) days, and any objection to incommendation. If No period for reply septided above is less than thirty (80) days, and any objection to incommendation. Any reply received by the Office later than their months after the mainting eater of the communication is constant the months after the mainting eater of the communication. Any objection of FinAL. 20) This action is FINAL. 20) This action is finAl. 20) Is set this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1835 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s)						
Examiner Blessing M. Fubara 1615		Applicati n No.	Applicant(s)			
## Blassing M. Fubara ## 1615 ## The MAILING DATE of this communicati in appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. ## Editoriate of time may be available under the provisions of 3 CFR 1.136(a). In no event, however, may a reply be timely filed after 5% (6) MONTHS from the maining date of rise communication. ## IN Operator for reply is psecified used the provision of 3 CFR 1.136(a). In no event, however, may a reply be timely filed after 5% (6) MONTHS from the maining date of rise communication. ## IN Operator for reply is psecified between the statutory period was pays and will example X(6) MONTHS from the maining date of this communication. ## IN Operator for reply is psecified period for reply will, by attautory minimum of pays and will example X(6) MONTHS from the maining date of this communication. ## Provision of the statutory of the provision and the provision of the communication. Each of the communication. ## Provision of Claims ## In Operator of Claims		10/019,049	ROSENBERG ET AL.			
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Attachment(s)		. ,				
(1) ☑ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) (2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152) (3) ☑ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6. 6) ☐ Other:	2) Delice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal P				

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DETAILED ACTION

Examiner acknowledges receipt of declaration and preliminary amendment A filed 03/28/02, IDS filed 10/29/02 and change of address filed 03/04/03.

Specification

This application is a 371 of PCT/EP00/05848 filed 06/23/2000. It is suggested that the specification be amended where the statement --- This application is a 371 of PCT/EP00/05848 filed 06/23/2000--- is inserted on the first line below the title.

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Germany on 07/02/1999. It is noted, however, that applicant has not filed a certified copy of the German application as required by 35 U.S.C. 119(b).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Krape et al. (WO 99/00131, provided by applicants on Form PTO-1449).

Krape discloses solid dispersion of paroxetine in polyvinylpyrrolidone or polyethylene glycol polymeric carrier (abstract, page 5, lines 31-34). In a preferred embodiment, Krape discloses a process for forming the paroxetine-HCl polymer melt that involves heating a mixture

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of the paroxetine and polymer carrier to form a molten homogenous melt of paroxetine free base and the polymeric carrier and introducing dry hydrogen chloride into the vessel where a pharmaceutically acceptable paroxetine-HCl is formed in the molten state (page 6, line 27 to page 7 line 7). In example 1, Krape forms a homogenous melt of paroxetine free-base and PEG in a flask and subsequently scraps the product from the flask to grind or mill into desired particle size.

The claimed invention is directed to a solid or semisolid preparation of paroxetine or one of its physiologically acceptable salt in the form of a molecular dispersion of paroxetine in a pharmaceutically acceptable polymer matrix having a glass transition temperature of >90 °C.

The instant specification on page 1, lines 36-41, describes dispersions of two or more solids as solid solutions or molecular dispersions. The melt of paroxetine and polymer carrier in Krape is a solid solution or molecular dispersion of paroxetine in a polymer. No specific polymer is claimed in the instant invention. The glass transition temperature of a polymer is specific to a specific polymer. Thus the recited glass transition temperature of >90 °C is inherent to the polymeric carrier of the prior art. Paroxetine-HCl is formed when dry hydrochloric acid is introduced into the homogenous melt of the polymeric carrier and paroxetine free-base and this teaching meets the limitation of claim 2. In instant claim 3, 80% of the active ingredient is released after 30 minutes and this property is inherent to the paroxetine formulation of Krape.

Thus, the teaching of Krape anticipates the claims.

Krape is published on 07 January 1999, which is greater than one year from the PCT filing date of 06/23/00 but less that a year from the foreign priority date of 07/02/1999.

However, the art is used as a 102(b) because applicants neither submitted a certified copy of the

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priority document nor provided a translation of the priority document. Submission of certified copy of the foreign priority document and a proper English translation of the priority document would remove the prior art as a 102(b) art.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krape et al. (WO 99/00131) in view of Craig et al. (WO 00/32593) and further in view of Patel et al. (US 6,248,363).

The teaching of Krape is discussed above. Claim 6, which is dependent on claim 5, is taught in Krape because Krape employs paroxetine free-base in the formation of molten homogenous melt of paroxetine-HCl and polymer. Although Krape discloses forming a homogenous melt of paroxetine-HCl and polymeric carrier and optionally grinding or milling the melt to desirable particles (example 1 of Krape), Krape's melt was formed in a flask and not in an extruder. Thus regarding claim 4, Krape does not teach forming the melt in an extruder. However, Patel teaches solid carriers for pharmaceutically active ingredients (title). In Patel, paroxetine is one of the pharmaceutically active ingredients (column 5, line 61 and column 9, line 9). The formulation of Patel contain polymeric additives (column 39, lines 41) and the dosage form comprising the pharmaceutical agent, polymeric additives, surfactants (column 10, line 41), triglycerides (column 32, line 61) and solubilizers (column 37, line 25) is extruded or

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melted or compressed or wet granulated or dry granulated (column 41, lines 27-46). Patel further discloses that components are melt extruded (column 47, lines 13-18). Patel is thus relied upon for melt extruding carrier formulations comprising pharmaceutical agents of which paroxetine is listed. The Patel reference shows that paroxetine containing compositions can be melt extruded. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to extrude the homogenous melt of Krape with the expectation that the molten paroxetine-HCl and the polymeric carrier would be formed in into particles. One having ordinary skill in the art would have been motivated to extrude the homogenous melt of Krape in order to shape/grind/mill the melt into the desired particles size.

Regarding claim 5, Krape does not teach forming paroxetine-HCl with ammonium chloride. But Craig discloses that paroxetine-HCl can be formed by reacting paroxetine base or salt with an amine hydrochloride such as ammonium chloride with the proviso that the paroxetine salt is not paroxetine acetate or paroxetine tartrate (page 2, lines 11-17 and page 3, lines 31 and 32). Craig is relied upon for a teaching that paroxetine-hydrochloride salt can be prepared from paroxetine base or salt and ammonium chloride. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to prepare paroxetine-HCl according to the teaching of Krape. One having ordinary skill in the art would have been motivated to substitute ammonium chloride for hydrochloric acid with the expectation for the formation of paroxetine-HCl.

6. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicants' cooperation is respectfully requested in correcting any errors of which applicants may become aware in the specification.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blessing M. Fubara whose telephone number is 703-308-8374. The examiner can normally be reached on 7 a.m. to 3:30 p.m. (Monday to Friday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K. Page can be reached on 703-308-2927. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3592 for regular communications and 703-305-3592 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1234.

Blessing Fubara Affabara
Patent Examiner

Patent Examiner

Tech. Center 1600

April 21, 2003